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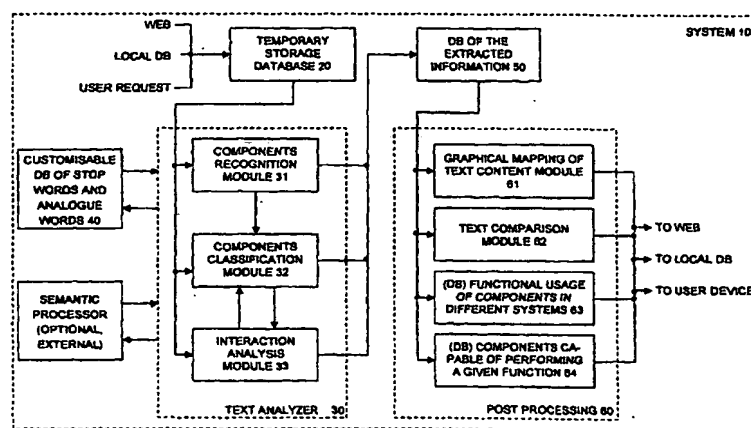
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(54) Title: SYSTEM AND METHOD FOR PERFORMING FUNCTIONAL ANALYSES MAKING USE OF A PLURALITY OF INPUTS



(57) Abstract: A computer based software system and method for performing automatic analyses and comparisons of patents and technical descriptions of engineering systems (as technical reports, usage and maintenance handbooks, overhaul manuals etc.) capable of translating the text of the invention into a block diagram whose graphical representation is made according to the main market standards, i.e. functional models, IDEF models etc., recognizing the components of the system (even if referenced with several nomenclatures), identifying their abstraction level hierarchy up to the lowest detail level as well as their functional and control interactions. Further features are the definition of a database of functional uses of a given component among the analyzed patents and/or a database of the subsystems capable of performing a given task. Such databases of components usages and functions fulfillments allow the fast retrieval of technical solutions and can be easily integrated with CAD systems and conceptual design software tools.

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